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Hon'ble Vice-Chancellor, MSCBU

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Registration Details

- <https://forms.gle/8J8xYzESMDFnC9FL6>



- There is no registration fee for this FDP.
- The accommodation for the participants may be arranged with prior information.
- Certificate will be issued to those participants who attend all the sessions and qualify in the test conducted at the end of the programme
- Participants on the first come first serve basis will be accepted for registration.
- Certificate is useful for CAS promotion/API recognition.
- Last date for the registration is 24th MAY 2023.

Contact

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MSCBU

**OHEPEE-IDP
Sponsored
One Week FDP**

ON

**ADVANCES IN
MACHINE LEARNING
FOR DATA ANALYTICS**

**31st May - 04th June
2023**

**MAHARAJA SRIRAM
CHANDRA BHANJA
DEO UNIVERSITY**

About the MSCBU

Maharaja Sriram Chandra Bhanja Deo (MSCB) University (NAAC 'A' Grade) was established by the Government of Orissa, under Section 32 of the Odisha University Act, 1989 (Act 5 of 1989), vide notification No. 880 dated 13th July 1998. Sriram Chandra Vihar is located on the outskirts of Baripada town and one km away from NH 18. It is 250 km from Kolkata and 260 km from the State capital Bhubaneswar. It is also well-connected to all places of the State. At present, the University provides Post-Graduate education in eight subjects at Baripada campus and five subjects at Keonjhar campus through respective regular departments. Besides, self-financing courses in 15 subjects are imparted at its Baripada Campus. In addition, the University offers M.Phil. and Ph.D. programmes in the regular departments. Meanwhile, administrative approval has been obtained for opening eight more new regular courses at its Baripada campus. Four of the regular P.G. Departments have been granted departmental research support from UGC and DST under Special Assistance Programme (SAP) and FIST programmes, respectively. Several individual projects have been funded by UGC, DST, DAE, CSIR,

Department of Computer Science

The P. G. Department of Computer Science of MSCBU started in the year 2016-17 with an intake of 30 M.Sc. Students. The department strives to shape outstanding computer professionals and researchers to make them ready for the ever-changing IT industry and Academia. The training and learning imparted aims to prepare the young minds for the challenging opportunities in the industry with a global awareness, nourished and supported by expert supervision.

Resource Persons

Experienced faculty of reputed National level institutions like IIT, IEST, NIT, Central Universities and other premier institutions and experts from industries and R&D laboratories will handle the sessions.

About the Programme

Undoubtly, machine learning has become one of the most influential technologies in the last two decades. Each time, more emphasis on improvements in the “learning” in machine learning allows computers to make best decisions, based on previous experiences. Advances in ML have allowed for recent breakthroughs that promote faster and more efficient business intelligence, using abilities ranging from wide area industrial applications to pattern recognition and other related data mining problems. On the other hand, data analytics is a science for analysis of raw data to draw some meaningful conclusions from those data. With the recent advances in technology and social media, there has been always a challenge to handle bulk generation of data. Starting from medical, healthcare to social cites like Facebook, Twitter, Instagram and other large-scale industries etc. are the leading sources of generation of petabytes of data. The application of machine learning for handling the such data generated from several sectors like power plants, waste management, hospitals, monitoring traffic system, transportation systems, smart cities, IoT devices, image analysis, social cite analysis and crime detection etc has been of recent interest among researchers. This FDP is aimed at imparting knowledge and training on the fundamentals of interdisciplinary field of machine learning and data analytics. The main objective is to make the participants familiar with emerging field of machine learning along with the preparation of data for extracting valuable insights from vast amount of heterogeneous data.

Objective of the FDP

- To learn the basics and advancements of Machine learning
- To familiarise the tools of data analytics
- To introduce the fundamental concepts of big data
- To learn methods and techniques to apply ML algorithms for data analysis
- To provide hands on experience on data processing and visualization tools.
- Work with different types of data

Eligibility

- Faculty members from UGC/AICTE approved Degree Colleges and Universities and other academic institutions.
- Research Associates/ Senior research professionals from reputed institutions.
- Faculty of Computer Science/IT, Computer Application, Mathematics, Statistics, & Engineering branches

Key topics to be covered

Understanding the advance deep learning paradigms for Bigdata Applications in the following sectors:

- Introduction to ML
- Supervised and Unsupervised Learning
- Feed forward Neural Networks (NN), Back propagation
- Bayesian learning
- Decision tree-based classification methods
- Ensemble Learning
- Data Analysis and visualization
- Handling Big data
- Deep Learning
- Applications of ML

Session Timings

1 st session	10:00 A.M.- 01:00 P.M.
2 nd Session	2:00 P.M. – 6.30 P.M.
Mode of Sessions	OFFLINE